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09/870,937
Sheet 1 of 5

FORM PTO-1449
(REV. 7-80)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.
200130.514/PP-01623.002

APPLICATION NO.
09/870,937

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INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS
Bin Wu et al.

FILING DATE
May 30, 2001

GROUP ART UNIT
1641 1632

SEP 04 2001

TECH CENTER 1600/2900

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
DL	AC	WO 98/06437	02/19/98	WIPO PCT		
DL	AD	WO 99/08711	02/25/99	WIPO PCT		
DL	AE	WO 01/16306 A2	03/08/01	WIPO PCT		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DL	AF	Banin et al., "Enhanced Phosphorylation of p53 by ATM in Response to DNA Damage," <i>Science</i> 281(5383):1674-1677, September 11, 1998.
DL	AG	Boulton et al., "Wortmannin is a Potent Inhibitor of DNA Double Strand Break but not Single Strand Break Repair in Chinese Hamster Ovary Cells," <i>Carcinogenesis (Lond.)</i> 17(11):2285-2290, November 1996.
DL	AH	Canman et. al., "Activation of the ATM Kinase by Ionizing Radiation and Phosphorylation of p53," <i>Science</i> 281(5383):1677-1679, September 11, 1998.
DL	AI	Chen et al., "Identification of Ataxia Telangiectasia Heterozygotes, a Cancer Prone Population," <i>Nature</i> 274(5670):484-486, August 3, 1978.
DL	AJ	Chernikova et al., "Wortmannin Sensitizes Mammalian Cells to Radiation by Inhibiting the DNA-dependent Protein Kinase-Mediated Rejoining of Double-strand Breaks," <i>Radiation Research</i> 151(2):159-166, February 1999.
DL	AK	Cox et al., "Tumour Suppressors, Kinases and Clamps: how p53 Regulates the Cell Cycle in Response to DNA Damage," <i>Bioessays</i> 17(6):501-508, June 1995.
DL	AL	El-Deiry "Regulation of p53 Downstream Genes," <i>Seminars in Cancer Biology</i> 8(5):345-357, 1998.
DL	AM	Elledge et al., "A Question of Balance: The Role of Cyclin-Kinase Inhibitors in Development and Tumorigenesis," <i>Trends in Cell Biology</i> 6:388-393, October 1996
DL	AN	Fiscella et al., "Mutation of the Serine 15 Phosphorylation Site of Human p53 Reduces the Ability of p53 to Inhibit Cell Cycle Progression," <i>Oncogene</i> 8(6):1519-1528, June 1993.

EXAMINER

David Jambleton

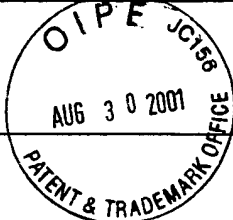
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APPLICANTS
Bin Wu et al.FILING DATE
May 30, 2001GROUP ART UNIT
1641 1636

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BA						
BB						

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
BC					
BD					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DS	BE	Haupt et al., "Mdm2 Promotes the Rapid Degradation of p53," <i>Nature</i> 387(6630):296-299, May 15, 1997.
	BF	Hendry et al., "P53 Deficiency Produces Fewer Regenerating Spermatogenic Tubules after Irradiation," <i>International J. of Radiation Biology</i> 70(6):677-682, December 1996.
DS	BG	Hosoi et al., "A Phosphatidylinositol 3-Kinase Inhibitor Wortmannin Induces Radioresistant DNA Synthesis and Sensitizes Cells to Bleomycin and Ionizing Radiation," <i>International J. of Cancer</i> 78(5):642-647, November 23, 1998.
DS	BH	Huang et al., "Lipitoids—novel Cationic Lipids for Cellular Delivery of Plasmid DNA <i>in vitro</i> ," <i>Chemistry & Biology</i> 5(6):345-354, June 1998.
DS	BI	Kastan et al., "A Mammalian Cell Cycle Checkpoint Pathway Utilizing p53 and GADD45 is Defective in Ataxia-Telangiectasia," <i>Cell</i> 71(4):587-597, November 13, 1992.
DS	BJ	Keith et al., "PIK-related Kinases: DNA Repair, Recombination, and Cell Cycle Checkpoints," <i>Science</i> 270(5233):50-51, October 6, 1995.
DS	BK	Kim et al., "Substrate Specificities and Identification of Putative Substrates of ATM Kinase Family Members," <i>J. Biol. Chem.</i> 274(53):37538-37543, December 31, 1999.
DS	BL	Komarova et al., "Could p53 be a Target for Therapeutic Suppression?," <i>Semin. Cancer Biol.</i> 8(5):389-400, 1998.
DS	BM	Komarova et al., "Transgenic Mice with p53-Responsive lacZ: p53 Activity Varies Dramatically During Normal Development and Determines Radiation and Drug Sensitivity <i>in vivo</i> ," <i>EMBO J.</i> 16(6):1391-1400, 1997

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David Jambert

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	CA						
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FOREIGN PATENT DOCUMENTS

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					YES	NO
	CD					
	CE					

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	CF	Kubbutat et al., "Regulation of Mdm2-directed Degradation by the C Terminus of p53," <i>Molecular and Cellular Biology</i> 18(10):5690-5698, October 1998.
	CG	Kubbutat et al., "Regulation of p53 Stability by Mdm2," <i>Nature</i> 387(6630):299-303, May 15, 1997.
	CH	Lehmann et al., "Miscellaneous Observations on DNA Repair in Ataxia-Telangiectasia," in Bridges and Harnden (eds.), <i>Ataxia-Telangiectasia - A Cellular and Molecular Link Between Cancer, Neurophathology and Immune Deficiency</i> , John Wiley and Sons, New York, 1982, pp. 347-353.
	CI	Lowe et al., "p53-Dependent Apoptosis Modulates the Cytotoxicity of Anticancer Agents," <i>Cell</i> 74(6):957-967, September 24, 1993.
	CJ	Lu et al., "Differential Induction of Transcriptionally Active p53 Following UV or Ionizing Radiation: Defects in Chromosome Instability Syndromes?," <i>Cell</i> 75(4):765-778, November 19, 1993.
	CK	Matsuoka et al., "Linkage of ATM to Cell Cycle Regulation by the Chk2 Protein Kinase," <i>Science</i> 282(5395):1893-1897, December 4, 1998.
	CL	Momand et al., "The <i>mdm-2</i> Oncogene Product Forms a Complex with the p53 Protein and Inhibits p53-Mediated Transactivation," <i>Cell</i> 69(7):1237-1245, June 26, 1992.
	CM	Nagase et al., "Prediction of the Coding Sequences of Unidentified Human Genes. V. The Coding Sequences of 40 New Genes (KIAA0161-KIAA0200) Deduced by Analysis of cDNA Clones from Human Cell Line KG-1," <i>DNA Research</i> 3(1):17-24, February 29, 1996.

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	DA						
FOREIGN PATENT DOCUMENTS							
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	DB						
	DC						
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	DD	Oliner et al., "Oncoprotein MDM2 Conceals the Activation Domain of Tumour Suppressor p53," <i>Nature</i> 362(6423):857-860, April 29, 1993.					
	DE	Powis et al., "Wortmannin, a Potent and Selective Inhibitor of Phosphatidylinositol-3-Kinase," <i>Cancer Research</i> 54(9):2419-2423, May 1, 1994.					
	DF	Price et al., "The Phosphatidylinositol 3-Kinase Inhibitor Wortmannin Sensitizes Murine Fibroblasts and Human Tumor Cells to Radiation and Blocks Induction of p53 Following DNA Damage," <i>Cancer Research</i> 56(2):246-250, January 15, 1996.					
	DG	Rogel et al., "p53 Cellular Tumor Antigen: Analysis of mRNA Levels in Normal Adult Tissues, Embryos, and Tumors," <i>Molecular and Cellular Biology</i> 5(10):2851-2855, October 1985.					
	DH	Rosenzweig et al., "Radiosensitization of Human Tumor Cells by the Phosphatidylinositol 3-Kinase Inhibitors Wortmannin and LY294002 Correlates with Inhibition of DNA-Dependent Protein Kinase and Prolonged G2-M Delay," <i>Clinical Cancer Research</i> 3(7):1149-1156, July 1997.					
	DI	Savitsky et al., "A Single Ataxia Telangiectasia Gene with a Product Similar to PI-3 Kinase," <i>Science</i> 268(5218):1749-1753, June 23, 1995.					
	DJ	Sarkaria et al., "Inhibition of Phosphoinositide 3-Kinase Related Kinases by the Radiosensitizing Agent Wortmannin," <i>Cancer Research</i> 58(19):4375-4382, October 1, 1998.					
	DK	Schmid et al., "Expression of p53 During Mouse Embryogenesis," <i>Development</i> 113(3):857-865, November 1991.					
	DL	Schwartz et al., "Expression of p53 Protein in Spermatogenesis is Confined to the Tetraploid Pachytene Primary Spermatocytes," <i>Oncogene</i> 8(6):1487-1494, June 1993.					
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	EA						
	EB						
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					YES	NO
	ED					
	EE					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DL	EF	Sherr, "Cancer Cell Cycles," <i>Science</i> 274(5293):1672-1677, December 6, 1996.
DL	EG	Shieh et al., "DNA Damage-Induced Phosphorylation of p53 Alleviates Inhibition by MDM2," <i>Cell</i> 91(3):325-334, October 31, 1997.
DL	EH	Siliciano et al., "DNA Damage Induces Phosphorylation of the Amino Terminus of p53," <i>Genes & Development</i> 11:3471-3481, 1997.
DL	EI	Tron et al., "p53-Regulated Apoptosis is Differentiation Dependent in Ultraviolet B-Irradiated Mouse Keratinocytes," <i>American J. of Pathology</i> 153(2):579-585, August 1998.
DL	EJ	Wang et al., "Loss of p21 Increases Sensitivity to Ionizing Radiation and Delays the Onset of Lymphoma in <i>atm</i> -Deficient Mice," <i>P.N.A.S. USA</i> 94:14590-14595, December 1997.
DL	EK	Weinert et al., "The <i>RAD9</i> Gene Controls the Cell Cycle Response to DNA Damage in <i>Saccharomyces Cerevisiae</i> ," <i>Science</i> 241(4863):317-322, July 15, 1988.
DL	EL	Westpahl et al., " <i>atm</i> and <i>p53</i> Cooperate in Apoptosis and Suppression of Tumorigenesis, but not in Resistance to Acute Radiation Toxicity," <i>Nature Genetics</i> 16(4):397-401, August 1997.
DL	EM	Wymann et al., "Wortmannin Inactivates Phosphoinositide 3-Kinase by Covalent Modification of Lys-802, a Residue Involved in the Phosphate Transfer Reaction," <i>Molecular and Cellular Biology</i> 16(4):1722-1733, April 1996.

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